Claims

1. Apparatus comprising:

a fuel cell power plant;

a primary DC/AC inverter receiving DC power from said fuel cell power plant and providing three-phase AC power to three-phase power lines;

an energy storage device; and

a bi-directional DC/AC converter connected to said three-phase power lines, whereby to augment the response of said fuel cell power plant and said inverter to transients on said lines.

2. Apparatus according to claim 1 wherein said lines are connected to a critical customer load, whereby lapses of power to said critical customer load are averted by power supplied by said converter.

3. Apparatus according to claim 1 wherein:

said three-phase power lines are connectable by switches to a three-phase power grid; and

said converter is connected to said three-phase power lines by switches, said converter alternatively connectable by said switches to said power grid.

4. Apparatus according to claim 1 further comprising a diode connected between said fuel cell power plant and said energy storage device to passively provide energy to said energy storage device from said fuel cell power plant whenever there is a sufficient load on said fuel cell power plant so that the voltage output thereof exceeds that of said energy storage device.

5. Apparatus according to claim 4 further comprising:

a switch to interrupt the connection between said fuel cell power plant and said energy storage device through said diode.